# PCMCIA Fast Ethernet Attached Port PC Card

## Quick Installation Guide

M73-APO01-130

# FCC REGULATORY STATEMENTS

**Part15, Class B**

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interface, and
2. This device must accept any interface received, including interface that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

☝ ***Changes or modifications not expressly approved by party responsible for compliance could void the user the user authority to operate the equipment.***

# INTRODUCTION

This **PCMCIA Fast Ethernet PC Card** is designed for any Notebook PC with a PCMCIA or CardBus PC Card slot.

With this PC Card, users can hook up to their Ethernet LANs at the speed of 100Mbps as 10 times faster than traditional LAN environment. Moreover, the support of full duplex mode makes the data rate double possible. The fantastic feature of 10/100M auto-negotiation eliminates the compatible troubles.

The **PCMCIA Fast Ethernet PC Card** is Microsoft Plug and Play compatible. The installation under Windows 95/98/2000/ NT/ME/XP can be easily done in minutes.

## SYSTEM REQUIREMENTS

- An IBM compatible notebook computer with 386SX or higher processor
- At least one Type II PC Card socket
- Drivers and utilities provided with this product
- PCMCIA release 2.1 compliant Card Services and Socket Services.

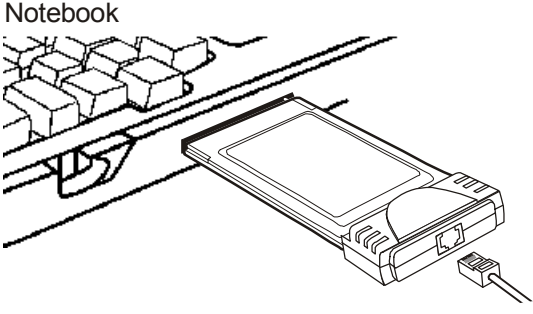
## OPERATING ENVIORNMENTS

- Novell Netware 3.x/4.x
- Microsoft LAN Manager
- Packet Driver Applications
- Microsoft Windows for Workgroups 3.11
- Microsoft Windows 3.1
- Microsoft Windows NT 3.51, NT 4.0
- Windows 95

- Windows 98
- Windows ME
- Windows 2000
- Windows XP
- Lantastic 6.0
- IBM OS/2 Warp Version 3

## HARDWARE INSTALLATION

1. Locate the PCMCIA slot of your system.
2. Align the PCMCIA Fast Ethernet Attached Port PC Card toward the PCMCIA slot. Push evenly and steadily until it is seated.




3. Connect the attached RJ-45 port with an Ethernet Hub/Switch.
4. You are now ready to continue the software installation.

## SOFTWARE INSTALLATION

### Installation for Windows 95

The installation procedures for the network driver may vary slightly depending on the version of Windows 95 you are using and also your current system configuration.

1. Once the **PCMCIA Fast Ethernet PC Card** is connected to your computer, Windows 95 will automatically detect the new hardware device as shown below. Insert the program diskette #1 into your floppy drive.

2. Click **Next**. When the **PCMCIA Fast Ethernet PC Card** message appears, click **Finish**. The Installation program will continue to copy the necessary files into your computer.

3. Follow the on-screen instruction to proceed. If Windows asks you to supply your original Windows 95 installation or setup files, insert the CD-ROM or disks as requested, and direct Windows 95 to the proper location.

4. When asked if you want to restart your computer, click **Yes**.

### Installation for Windows 98

1. Once the **PCMCIA Fast Ethernet PC Card** is connected to your computer, Windows 98 will automatically detect the

new hardware device as shown below. Click **Next**.

Add New Hardware Wizard
This wizard searches for new drivers for:
XXXXXXXXXXXXXXXXX
A device driver is a software program that makes a hardware device work.
< Back
Next >
Cancel

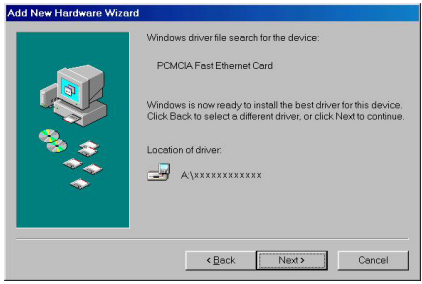
2. Insert the device driver diskette into your floppy drive. When Windows prompts you **What do you want Windows to do?** Select **Search for the best driver for your device. (Recommended)**. Click **Next**.

Add New Hardware Wizard
What do you want Windows to do?
Search for the best driver for your device. (Recommended).
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

3. Follow the on-screen instruction to proceed.

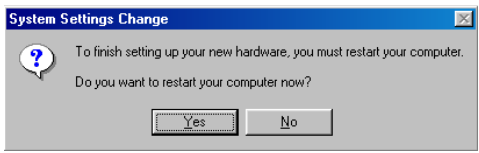
Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
Floppy disk drives
CD-ROM drive
Microsoft Windows Update
Specify a location:
A:
Browse...
< Back
Next >
Cancel

4. The installation program will proceed automatically.


Add New Hardware Wizard
Windows driver file search for the device:
PCMCIA Fast Ethernet Card
Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
A:\xxxxxxxxxxxx
< Back
Next >
Cancel

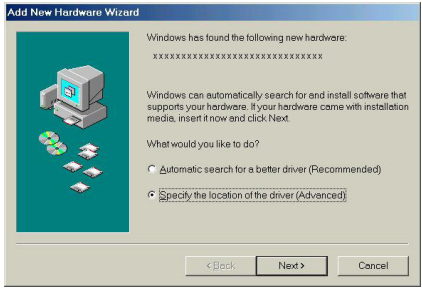
5. If you are asked to insert Windows 98 CD-ROM in the selective drive, please do so to have Windows copy all the necessary files to your system. . When the following window appears, click **Finish**.

1. Click **Yes** to restart your computer.


System Settings Change
To finish setting up your new hardware, you must restart your computer.
Do you want to restart your computer now?
Yes
No

## Installation for Window ME

1. Once the PC Card is well connected to your computer, Windows ME will automatically detect the new device. Select **Specify the Location of the driver…** and click **Next**.


Add New Hardware Wizard
Windows has found the following new hardware:
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Windows can automatically search for and install software that supports your hardware. If your hardware came with installation media, insert it now and click Next.
What would you like to do?
Automatic search for a better driver (Recommended)
Specify the location of the driver (Advanced)
< Back
Next >
Cancel

2. Insert the device driver disk into the floppy disk drive on your system. Select **Removable Media (Floppy, CD-ROM… )** and click **Next**.

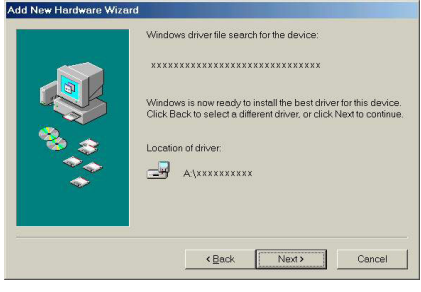
Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations.
Search for the best driver for your device. (Recommended).
Removable Media (Floppy, CD-ROM...)
Specify a location:
A:\
Browse
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

3. When the following window appears, select **The updated a software**

**(Recommended)**. Click **Next**.

Add New Hardware Wizard
Windows has found multiple software packages that should work for this device.
What would you like to install?
The updated software (Recommended)
XXXXXXXXXXXXXXXXXXXX
One of the other packages.
View List...
< Back
Next >
Cancel

4. Click **Next** to continue.


Add New Hardware Wizard
Windows driver file search for the device:
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
A:\xxxxxxxxxx
< Back
Next >
Cancel

5. Windows will copy the appropriate driver to your system. If Windows ME asks you to supply your original Windows ME installation CD-ROM, load it on the CD-ROM drive.

6. Click **Finish** to complete the software installation.

## Installation for Windows NT 4.0

This section describes the installation for Windows NT under the condition that Windows NT is already installed in your computer. If your computer is not yet networking installed, refer to the Windows documentation for details. Also remember to have your original Windows NT CD-ROM handy before you begin the installation. For Windows NT may ask for it during the installation.

1. Before you turn on your computer, make sure the **PCMCIA Fast Ethernet PC Card** has been properly inserted into the free PCMCIA slot of your computer.
2. Start Windows NT.
3. Click **Start→Settings→Control Pane**l. Double-click on the **Network** icon.
4. When the Network window appears, click on the **Adapters** tab. Click on the **Add** button, followed by **Have Disk**. Put the driver disk into drive A.

5. When asked to supply the path to the disk, type a:\ and click **OK**.

6. Windows NT will ask you to supply the I/O Base, Interrupt, and Memory values for the card. Good values to start with are 300 (for the I/O Base) and 5 (for the IRQ).

7. When you're finished, click **OK**. Windows NT will copy necessary files to your computer.

8. When the Network window reappears, click on the **Bindings** tab. Choose your bindings. Click on the Protocols tab and select your settings. Do the same for the **Services** tab.

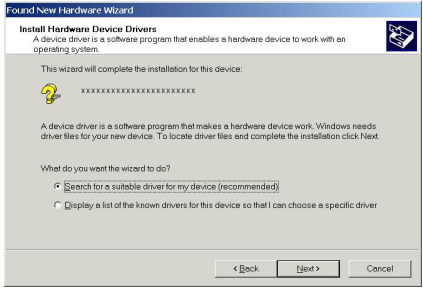
9. After your **bindings**, **settings**, and **services** are set, click on the **Close** button. Choose to restart your computer. After Windows NT restarts, be sure to log in.

### Installation for Windows 2000

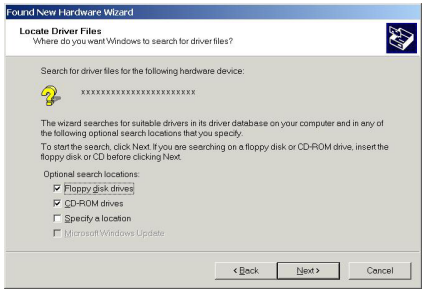
1. Insert the PC Card into the slot. When the **FOUND NEW HARDWARE WIZARD** dialog box appears, press **Next**.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install a device driver for a hardware device.
To continue, click Next.
< Back
Next >
Cancel

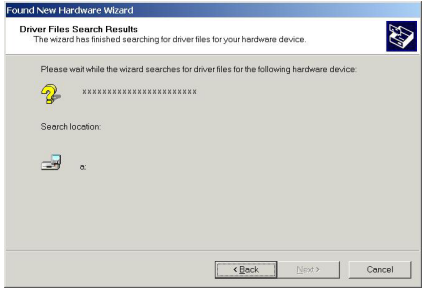
2. When Windows prompt you a **FOUND NEW HARDWARE WIZARD** dialog box, select **Search for the …** and press **Next**.


Found New Hardware Wizard
Install Hardware Device Drivers
A device driver is a software program that enables a hardware device to work with an operating system.
This wizard will complete the installation for this device:
xxxxxxxxxxxxxxxxxxxxxxxx
A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next.
What do you want the wizard to do?
Search for a suitable driver for my device (recommended)
Display a list of the known drivers for this device so that I can choose a specific driver
< Back
Next >
Cancel

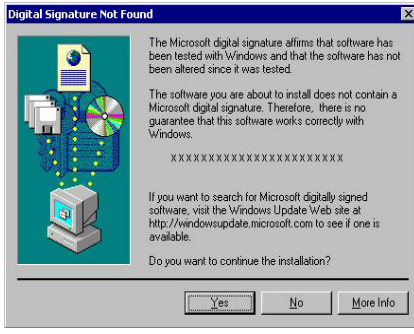
3. Windows will prompt an **FOUND NEW HARDWARE WIZARD** dialog box. In this time, select **Floppy disk drives** and insert the driver diskette. Press **Next**. When asked for the original Windows 2000 CD/disks please follow the on-screen instruction.


Found New Hardware Wizard
Locate Driver Files
Where do you want Windows to search for driver files?
Search for driver files for the following hardware device:
xxxxxxxxxxxxxxxxxxxxxxxx
The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.
To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.
Optional search locations:
Floppy disk drives
CD-ROM drives
Specify a location
Microsoft Windows Update
< Back
Next >
Cancel

4. Wait for a while until Windows has found the appropriate driver.


Found New Hardware Wizard
Driver Files Search Results
The wizard has finished searching for driver files for your hardware device.
Please wait while the wizard searches for driver files for the following hardware device:
xxxxxxxxxxxxxxxxxxxxxxxx
Search location:
a:
< Back
Next >
Cancel

5. Click **Yes** to continue.


Digital Signature Not Found
The Microsoft digital signature affirms that software has been tested with Windows and that the software has not been altered since it was tested.
The software you are about to install does not contain a Microsoft digital signature. Therefore, there is no guarantee that this software works correctly with Windows.
xxxxxxxxxxxxxxxxxxxxxxx
If you want to search for Microsoft digitally signed software, visit the Windows Update Web site at http://windowsupdate.microsoft.com to see if one is available.
Do you want to continue the installation?
Yes
No
More Info

6. **Click Finish.** The PC Card driver installation is successfully completed.

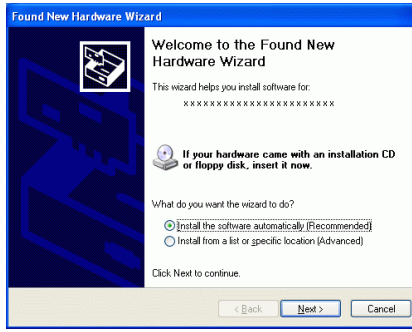
7. For the first time installation, click **Network** icon **in Control Panel** to add **Protocols**, **Client** and **Service** if needed.

8. Reboot your computer to activate the new device.

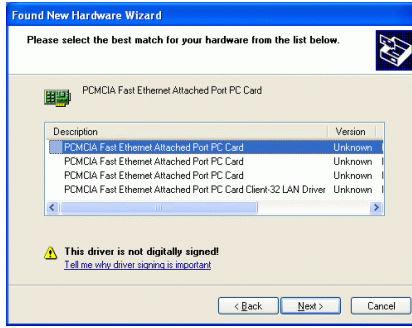
## Installation for Windows XP

1. Once the device is well connected,

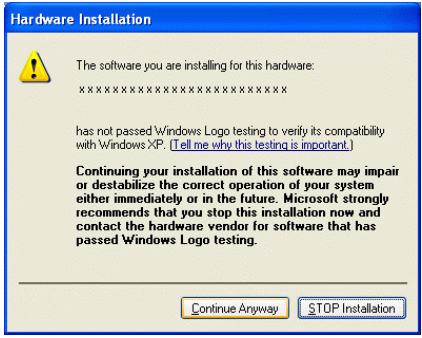
Windows will detect the new device and prompt you to insert the network device driver. Insert the device **Driver Disk** into the floppy disk drive of your system. Click **Install the software automatically (Recommended)** and click N**ext.**


Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
xxxxxxxxxxxxxxxxxxxxxxxx
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

2. Windows will start searching for the appropriate driver for this hardware. Select any drivers named as **PCMCIA Fast Ethernet Card**, and click **Next**.


Found New Hardware Wizard
Please select the best match for your hardware from the list below.
PCMCIA Fast Ethernet Attached Port PC Card
Description
Version
PCMCIA Fast Ethernet Attached Port PC Card
Unknown
PCMCIA Fast Ethernet Attached Port PC Card
Unknown
PCMCIA Fast Ethernet Attached Port PC Card
Unknown
PCMCIA Fast Ethernet Attached Port PC Card Client-32 LAN Driver
Unknown
This driver is not digitally signed!
Tell me why driver signing is important
< Back
Next >
Cancel

3. Windows will start searching for the appropriate driver for the installation. When the screen appears as below, click **Continue Anyway** to proceed.


Hardware Installation
The software you are installing for this hardware:
xxxxxxxxxxxxxxxxxxxxxxxxx
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

4. Wait while Windows copies the appropriate driver to your system.

5. Click **Finish.** The software installation for this network device is now completed.

Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
xxxxxxxxxxxxxxxxxxxxxxx
The hardware you installed will not work until you restart your computer.
Click Finish to close the wizard.
< Back
Finish
Cancel

# APPENDIX A. SPECIFICATIONS

## Network Interface Specifications

- IEEE 802.3 for 10BaseT
- IEEE 802.3u for 100BaseTX

### Data Rate

- 10/100 Mbps, Double data rate in Full Duplex mode

## Operating Systems

### For Notebook PC: ( with accessory adapter)

- Novell Netware 3.x, 4.x
- Microsoft LAN Manager
- Packet Driver Applications
- Microsoft Windows for Workgroups 3.11
- Windows 3.1
- Microsoft Windows NT 3.51, NT 4.0
- Windows 95/98
- Windows ME
- Windows 2000
- Windows XP

## Power Requirements

Normal Operation: +5V DC, 350mA max

## General Specification

LEDs: Six LEDs on the Attached Port

- Link (Green, On)
- 100/10 (Orange, On/Off)
- Full (Green, On)
- RX (Green, Blink)
- COL (Orange, On)
- TX (Green, Blink)

### Environments Ranges

Operating: 32°F to 149°F (0°C to 65°C)

Storage: -4°F to 158°F (0°C to 70°C)

Humidity: 10% - 90% , noncondensing

### Certifications

FCC, Part 15, Class B, VCCI-B

CE Mark (EN50081-1/50082-1, Class B)